

Substitute for Form 1449 A & B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/539,373
		Confirmation Number	Not Yet Assigned
		Filing Date	June 16, 2005
		First Named Inventor	Yoshiyuki FUKUMOTO
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet	1	of	Attorney Docket Number
Q88645			

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
<i>JH</i>		K. Matsuda et al.; "Reduced magnetoresistance in magnetic tunnel junctions caused by geometrical artifacts"; Applied Physics Letters; Vol. 77, No. 19; November 6, 2000; pages 3060-3062.	
✓		J. S. Moodera et al.; "Geometrically enhanced magnetoresistance in ferromagnet-insulator-ferromagnet tunnel junctions"; Applied Physics Letters; Vol. 69, No. 5; July 29, 1996; pages 708-710.	
✓		S. Ohnuma et al.; "Soft Magnetic Films with High Electrical Resistivity"; Journal of the Magnetics Society of Japan; Vol. 19, No. 1; 1995; pages 19-25; with English Abstract.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.



PTO/SB/08a (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork reduction Act of 1995, Non-Federal entities are required to respond to a collection of information unless it contains a valid OMB control number.

<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(Use as many sheets as necessary)</i></p>				<p>Complete If Known</p>	
Application Number	10/539,373			Filing Date	08-16-05
First Named Inventor	Yoshiyuki FUKUMOTO			Art Unit	
Examiner Name					
Sheet	1	of	1	Attorney Docket Number	Q88645

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature	A. Heinz	Date Considered	11/21/06
--------------------	----------	-----------------	----------

*** EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not Considered. Include of this form with next communication to applicant.

1. Applicant's unique citation designations or numbers (continued) 2. See Kinds codes of USPTO Patent Documenter LUENT prior MPEP.

1. Applicant's unique custom designation number (optional) 2. See funds codes at USP TO patent document <http://uspto.gov/uspto> on line 3. Enter Office that issued the document by the two-letter code AIA/DO Standard ST.1.4. For Japanese patent documents the

901.04. 3. Enter Office that issued this document, by the two-letter code (WIPO Standard ST 1) 4. For Japanese patent documents, the indication of the name of the name of the Examiner is not mandatory. In patent documents of the United States, the name of the Inventor is not mandatory. 5. Kind of document by the

Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5. Kind of document by the

appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6. Applicant is to place a check mark here if

English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO

to process an application. Consideration is governed by 35 U.S.C. 122 and 37 CFR 1.16. This section is intended to take a look at the process, including the time required to receive and review the comments and the time required to process and submit the comments to the USPTO. Time will vary depending upon the individual case. Any comments on the above will be welcome.

preparing, and submitting the complicated application form to the USPTO. Time will vary depending upon the individual case. Any comments on the above to correlate this form and line an application. The mark which will be used should be sent to the Chief Information Officer, U.S. Patent and Trademark Office.

to complete this form and/or suggestions for reducing this burden, should be sent to the Credit Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Washington, DC 20231-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

REED TTY Commissioner for Patients P.O. Box 14500, Glenvarva, VA 22312-1450

Substitute for Form 1449 A & B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	Not yet assigned
		Confirmation Number	Not yet assigned
		Filing Date	June 16, 2005
		First Named Inventor	Yoshiyuki FUKUMOTO
		Art Unit	Not yet assigned
		Examiner Name	Not yet assigned
Sheet	1	of	2
		Attorney Docket Number	
		Q88645	

U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document Number		Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)	
A/1	US 2002/0044396	A1	04-18-2002	Amano et al.
/	US 2004/0145850	A1	07-29-2004	Fukumoto et al.
	US			

FOREIGN PATENT DOCUMENTS

NON PATENT LITERATURE DOCUMENTS

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
AA		S. Cardoso et al., Influence of Ta antidiffusion barriers on the thermal stability of tunnel junctions, Applied Physics Letters (Vol. 78, May 7, 2001, pp. 2911-2913)(the second conventional example).	
✓		J.J. Sun et al., Low resistance and high terminal stability of spin-dependent tunnel junctions with synthetic antiferromagnetic CoFe/Ru/CoFe pinned layers, Applied Physics Letters (Vol. 76, April 24, 2000, pp. 2424-2426).	
✓		S. Cardoso et al., Influence of Ta antidiffusion barriers on the thermal stability of tunnel junctions, Applied Physics Letters (Vol. 76, June 19, 2000, pp. 3792-3794).	
✓		T. Ochiai et al., Improved Thermal Stability of Ferromagnetic Tunnel Junctions With a CoFe/CoFeOx/CoFe Pinned Layer, IEEE Transactions on Magnetics, (Vol. 39, September, 2003, pp. 2797-2799).	

Examiner Signature	A. Heinz	Date Considered	11/21/06
--------------------	----------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.